

FIG. 1

FIG.2

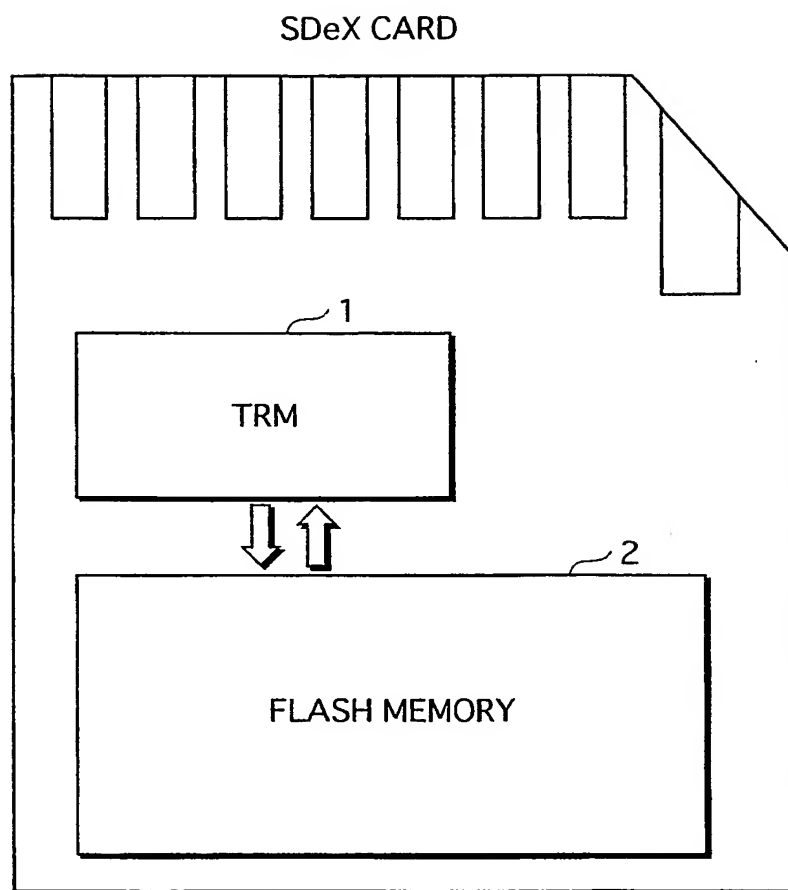


FIG.3

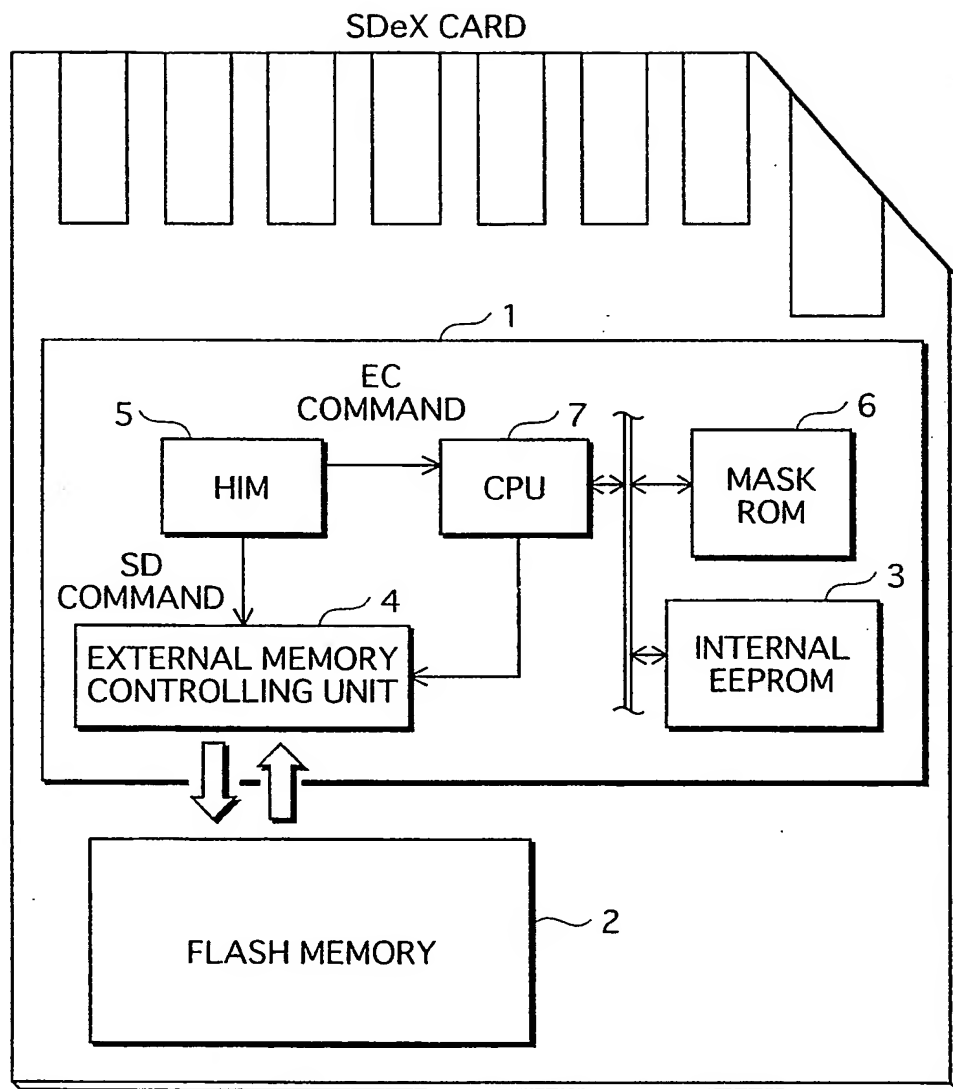


FIG. 4

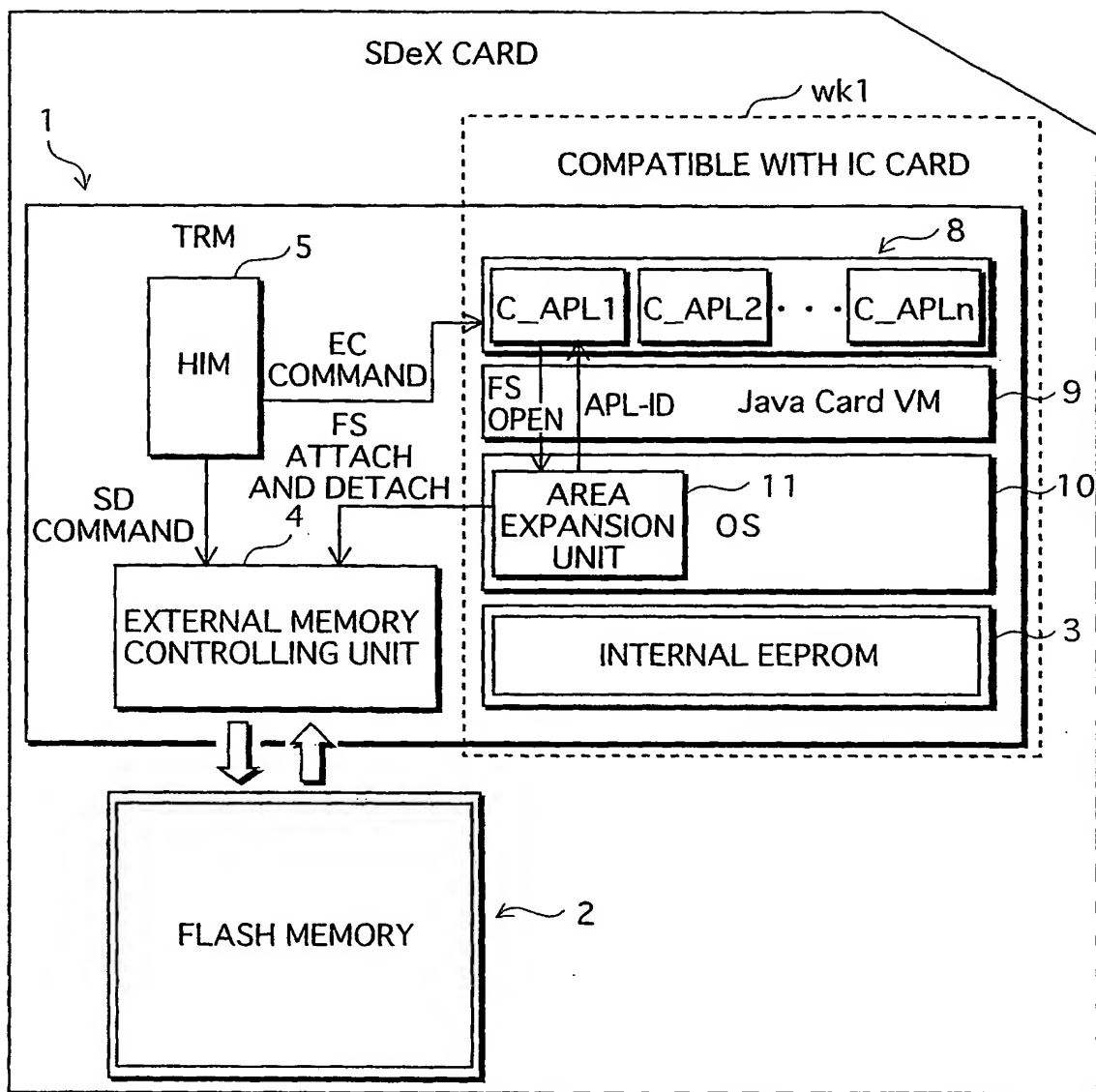


FIG.5

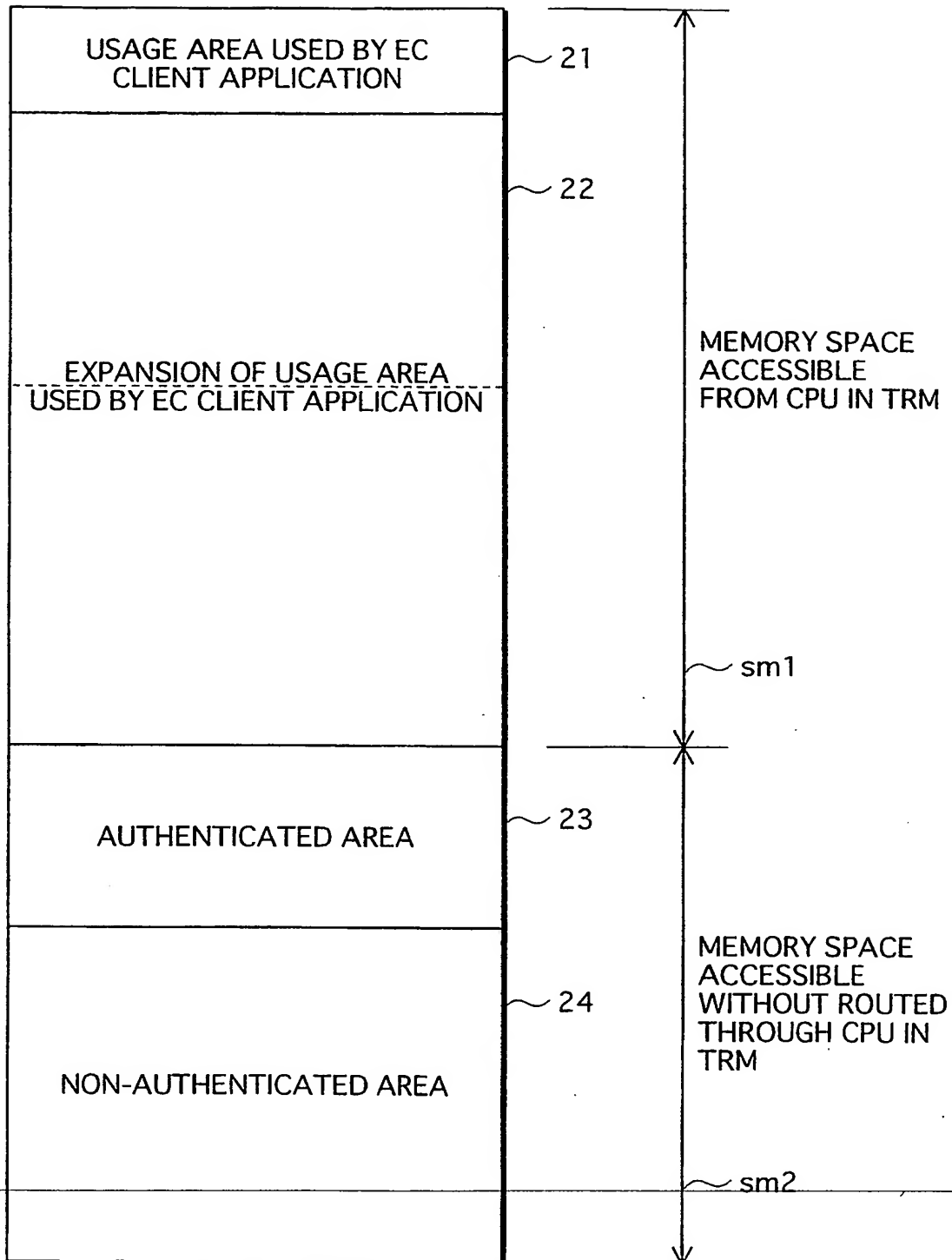


FIG.6

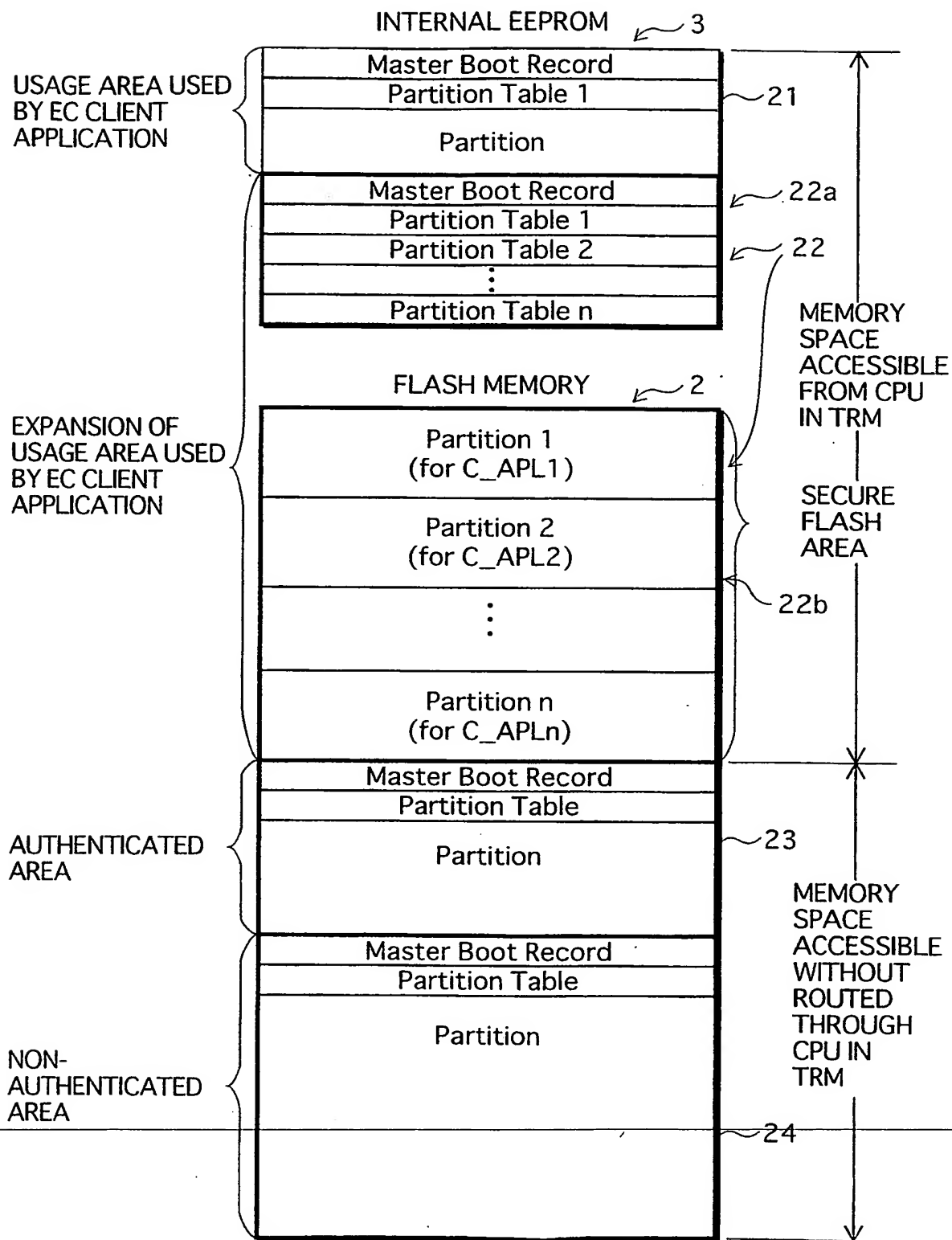


FIG.7

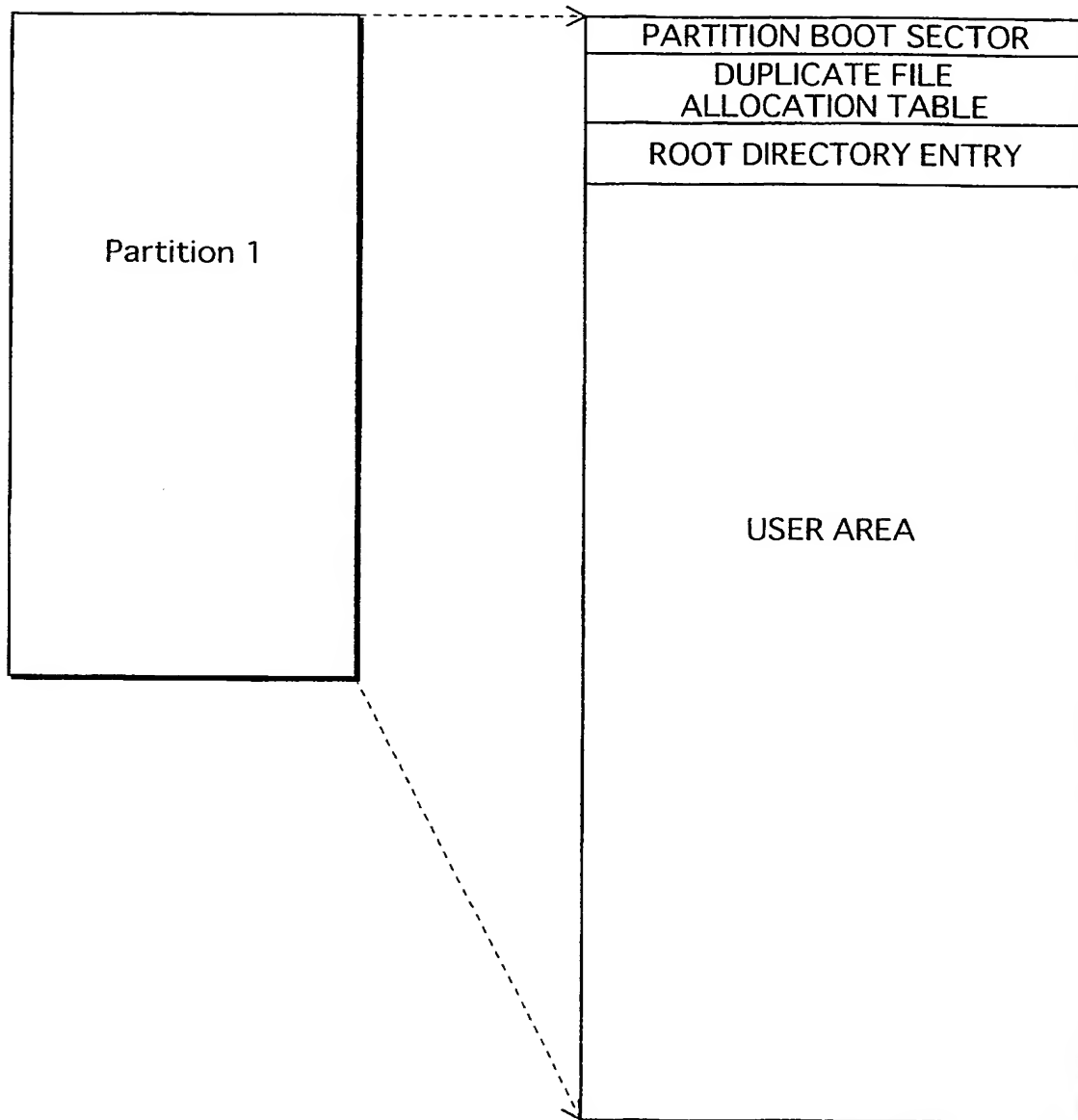


FIG.8A

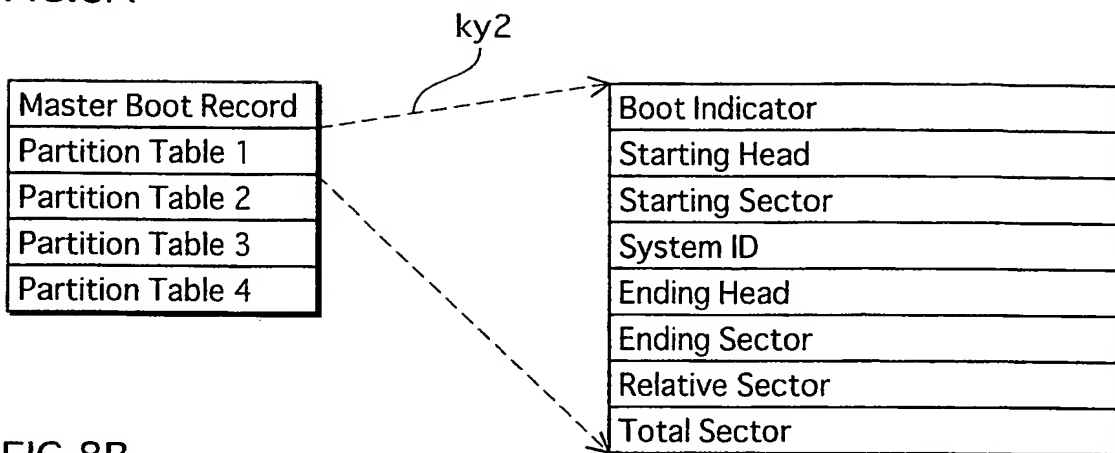


FIG.8B

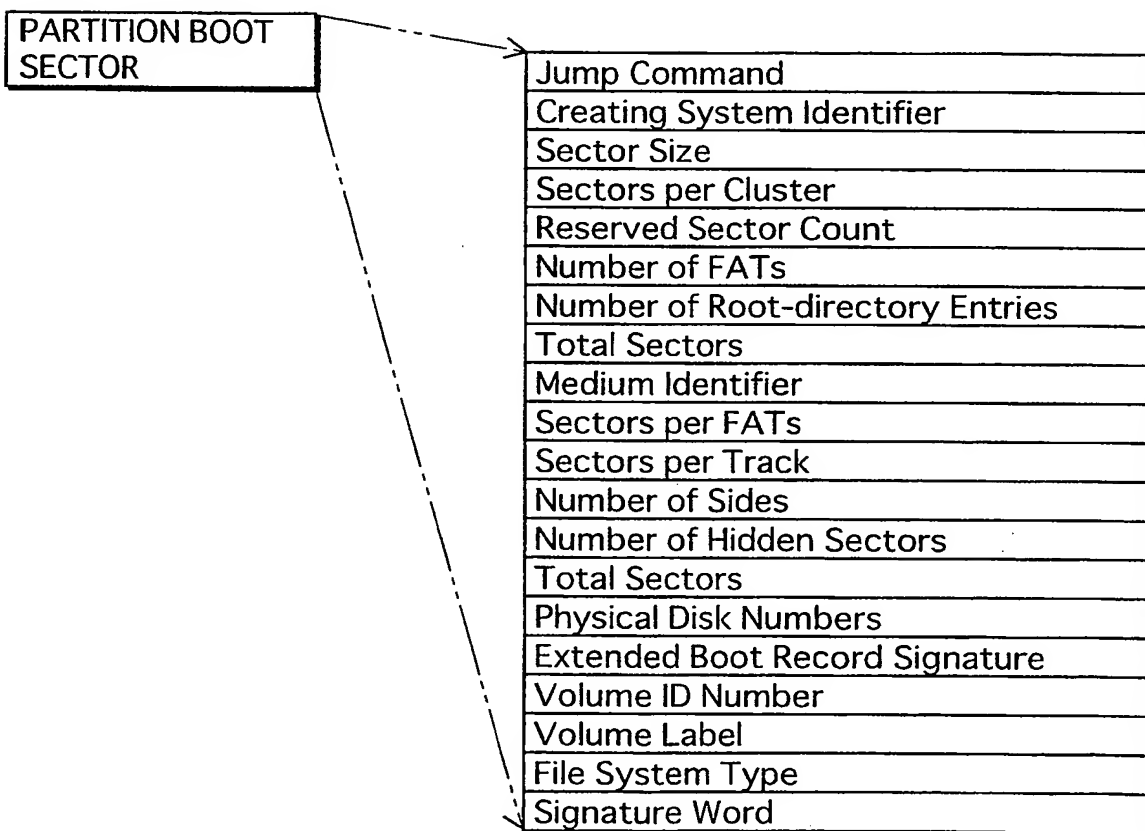




FIG.9

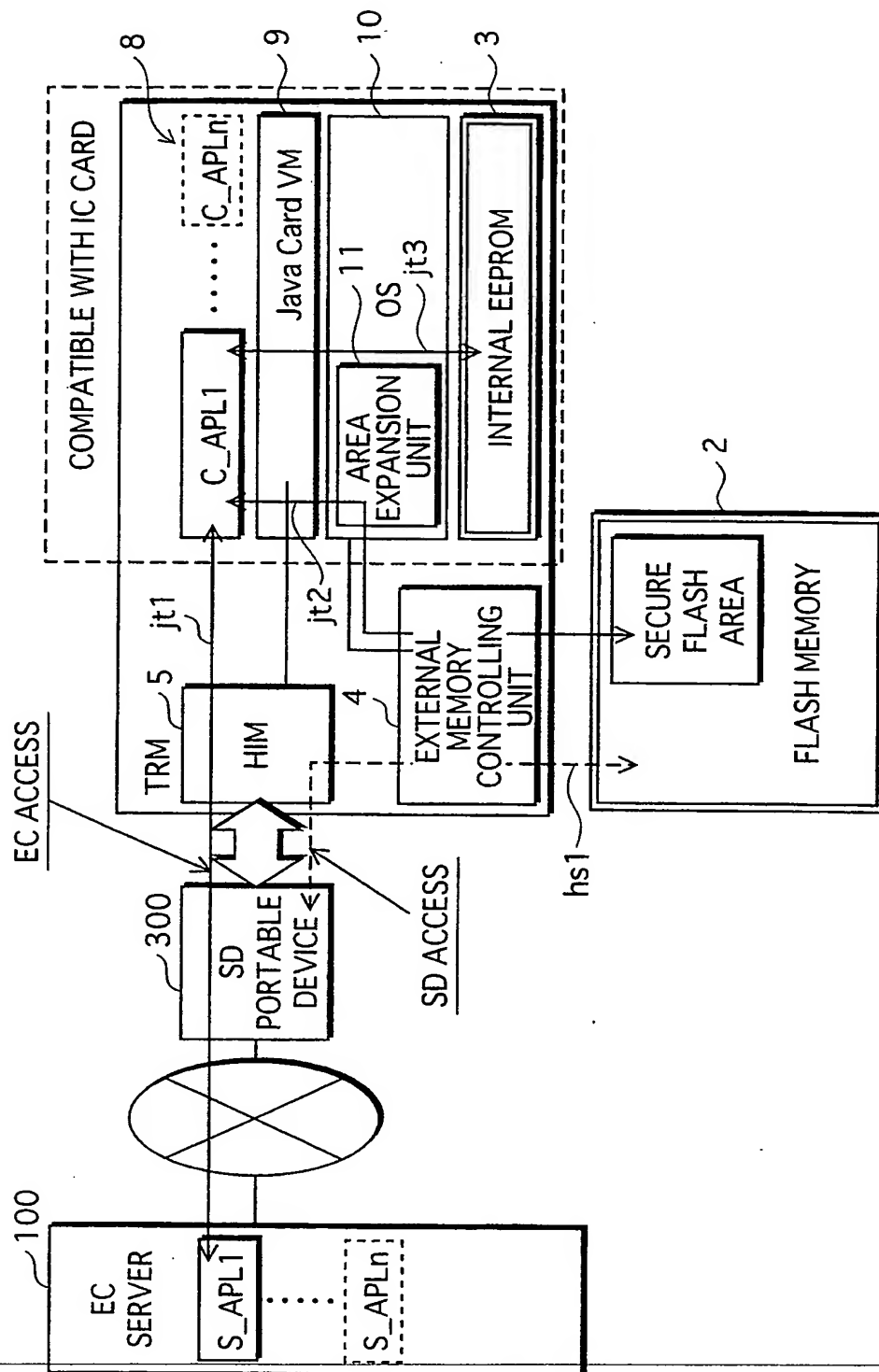


FIG.10

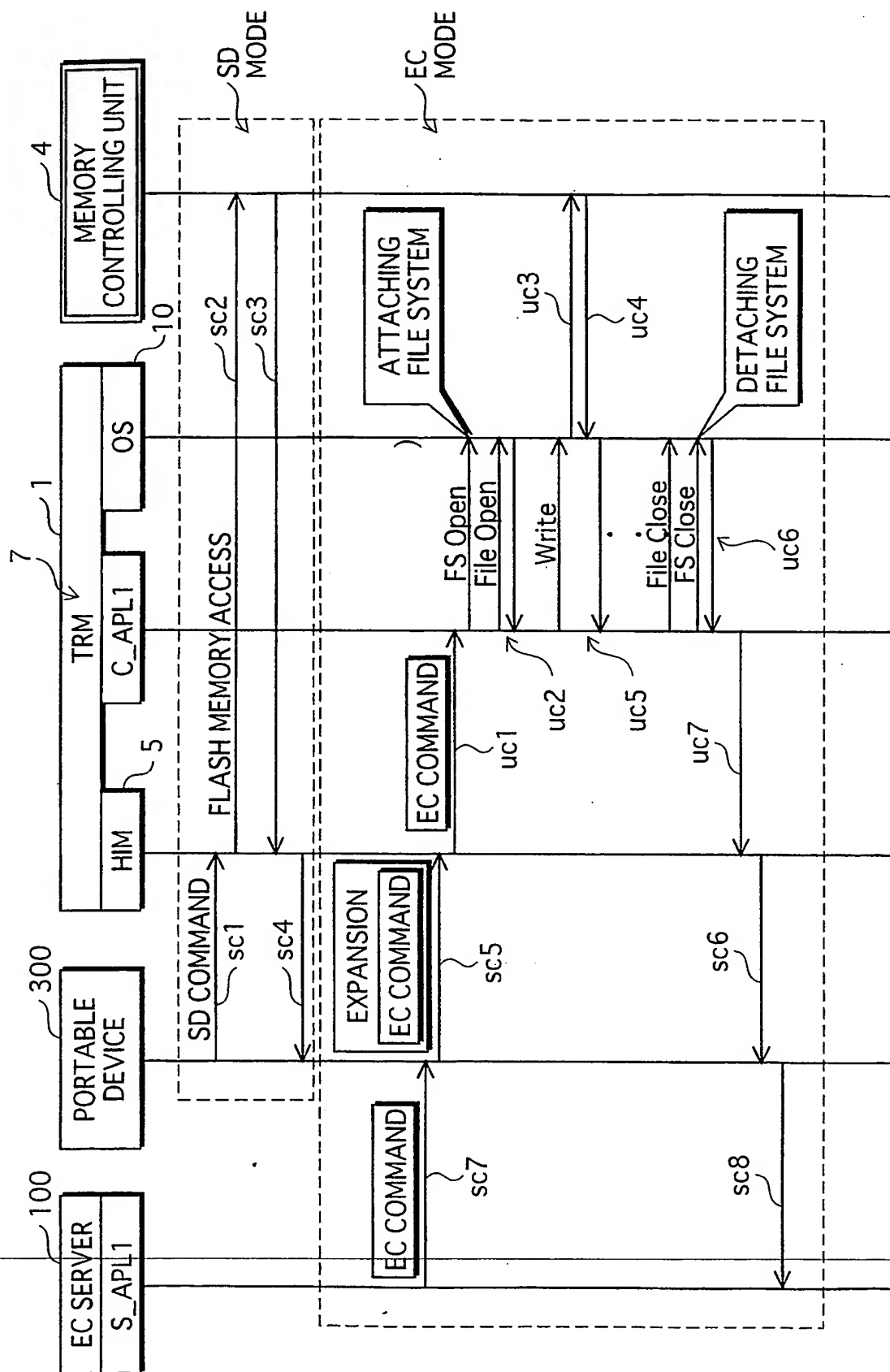


FIG. 11

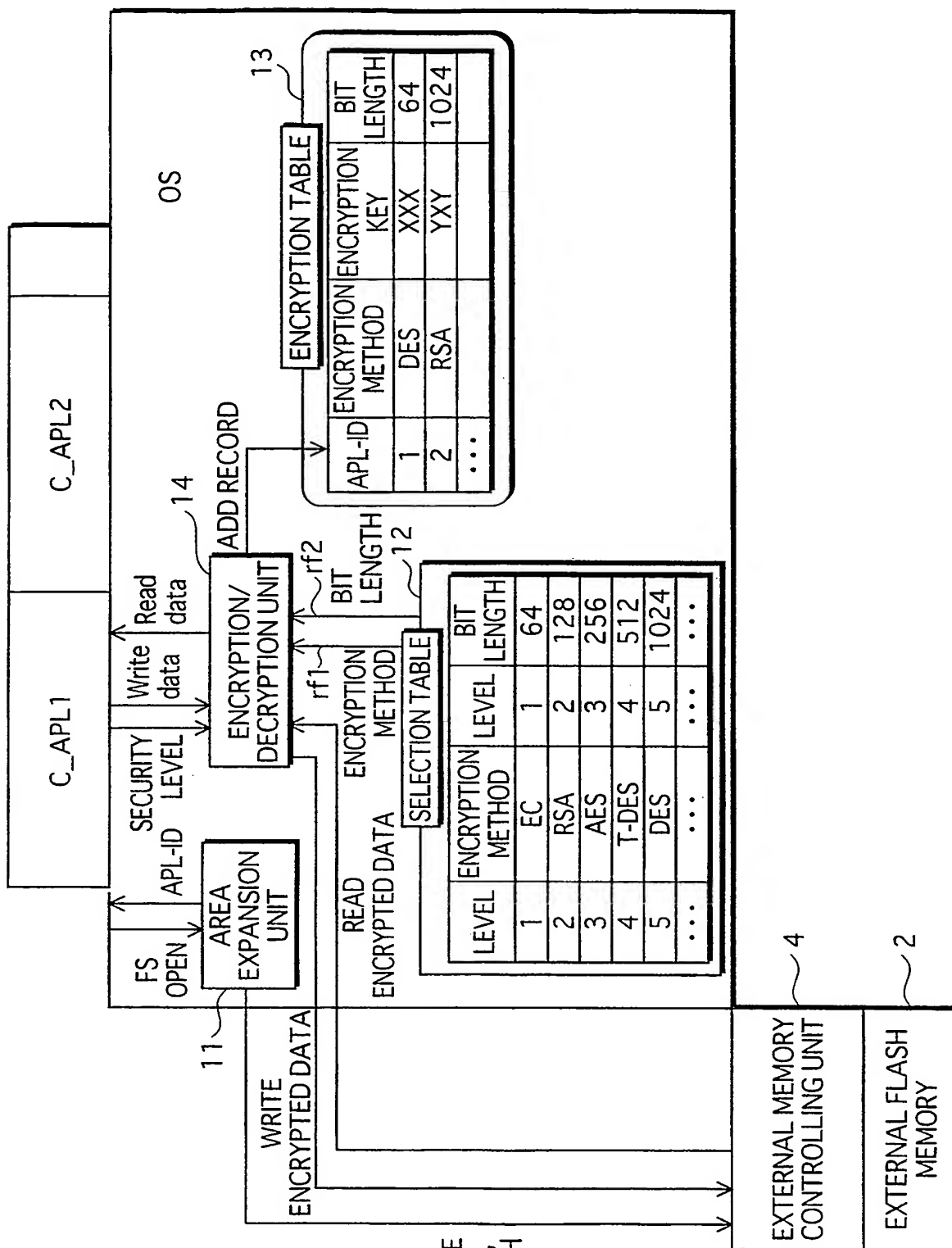


FIG. 12A

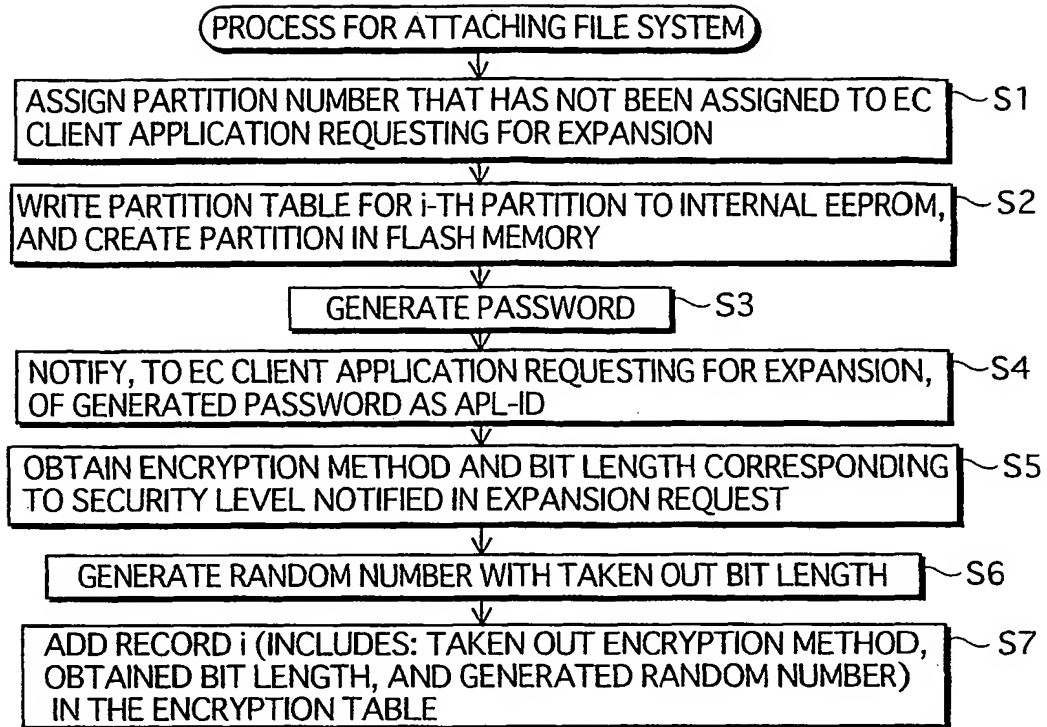


FIG. 12B

## FILE WRITE

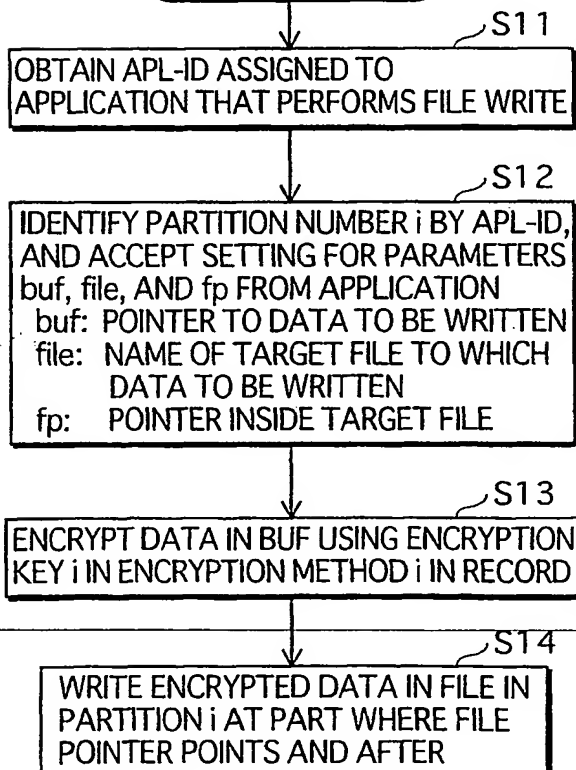


FIG. 12C

## FILE READ

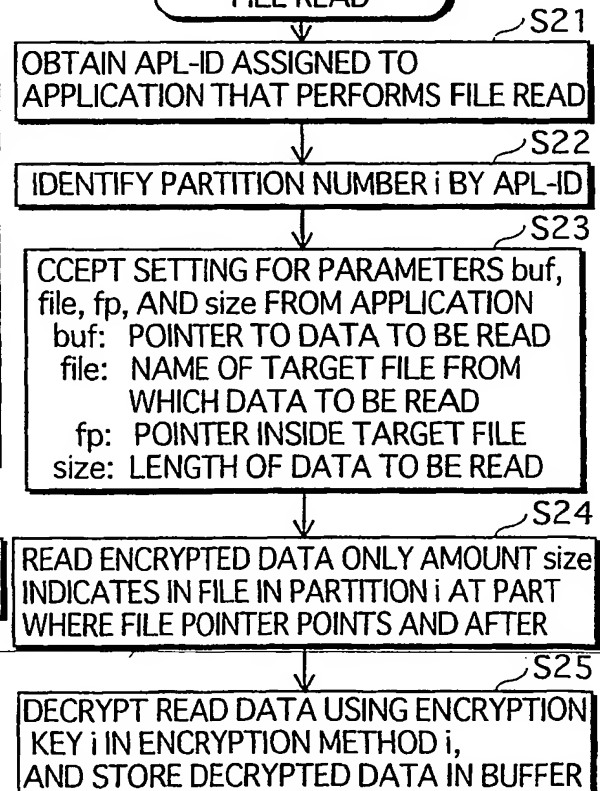


FIG.13

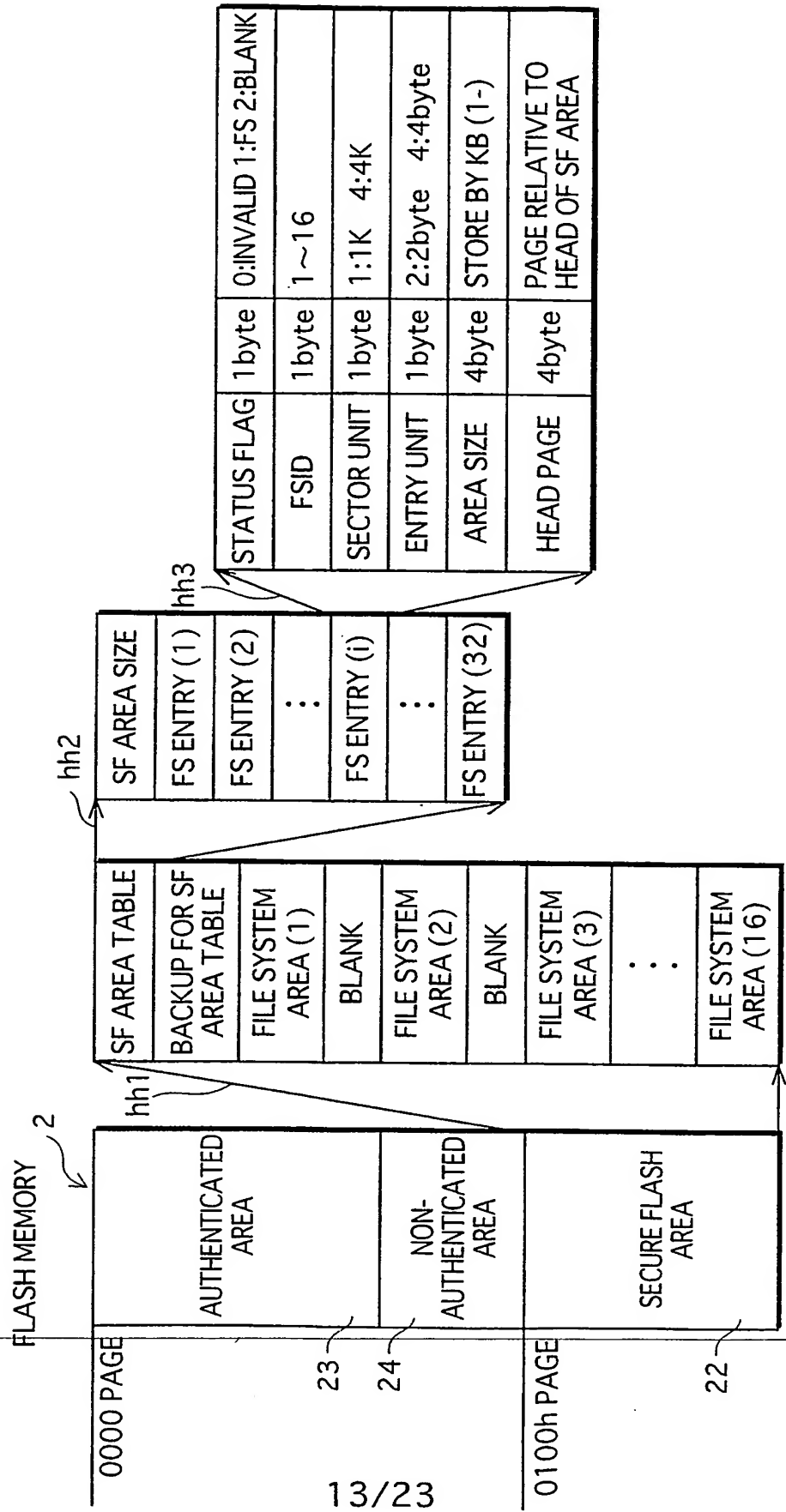
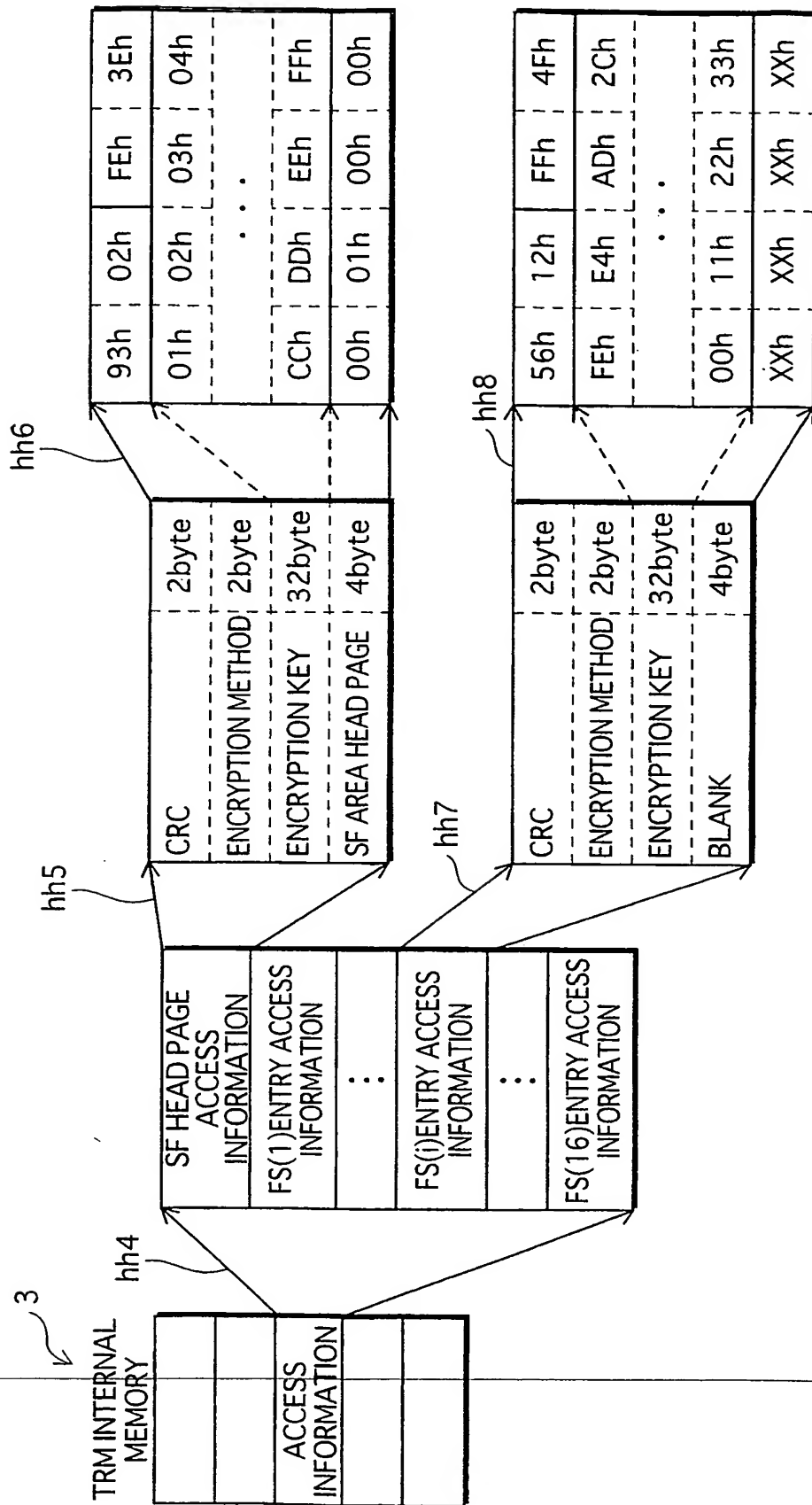


FIG.14



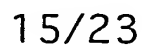


FIG.16

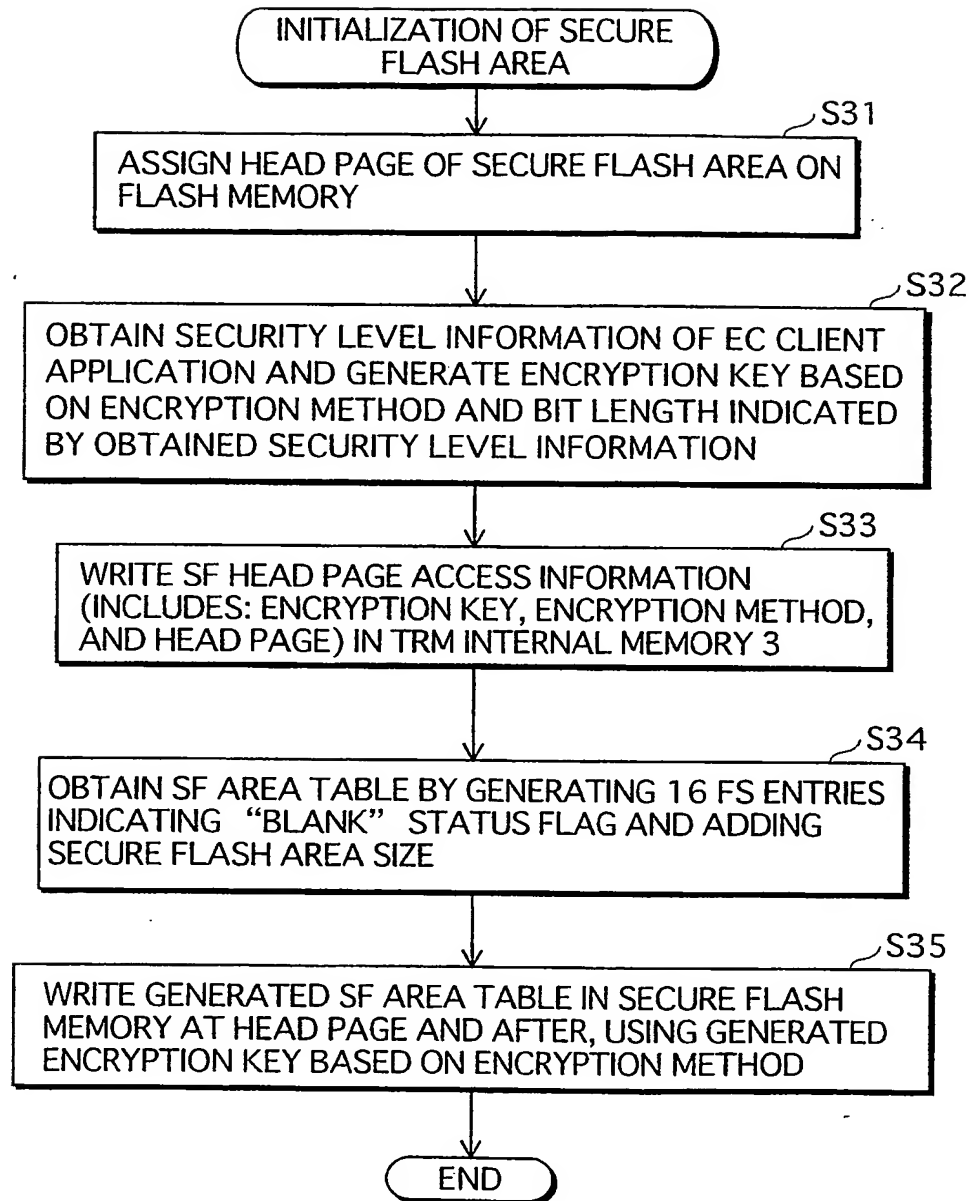




FIG. 17

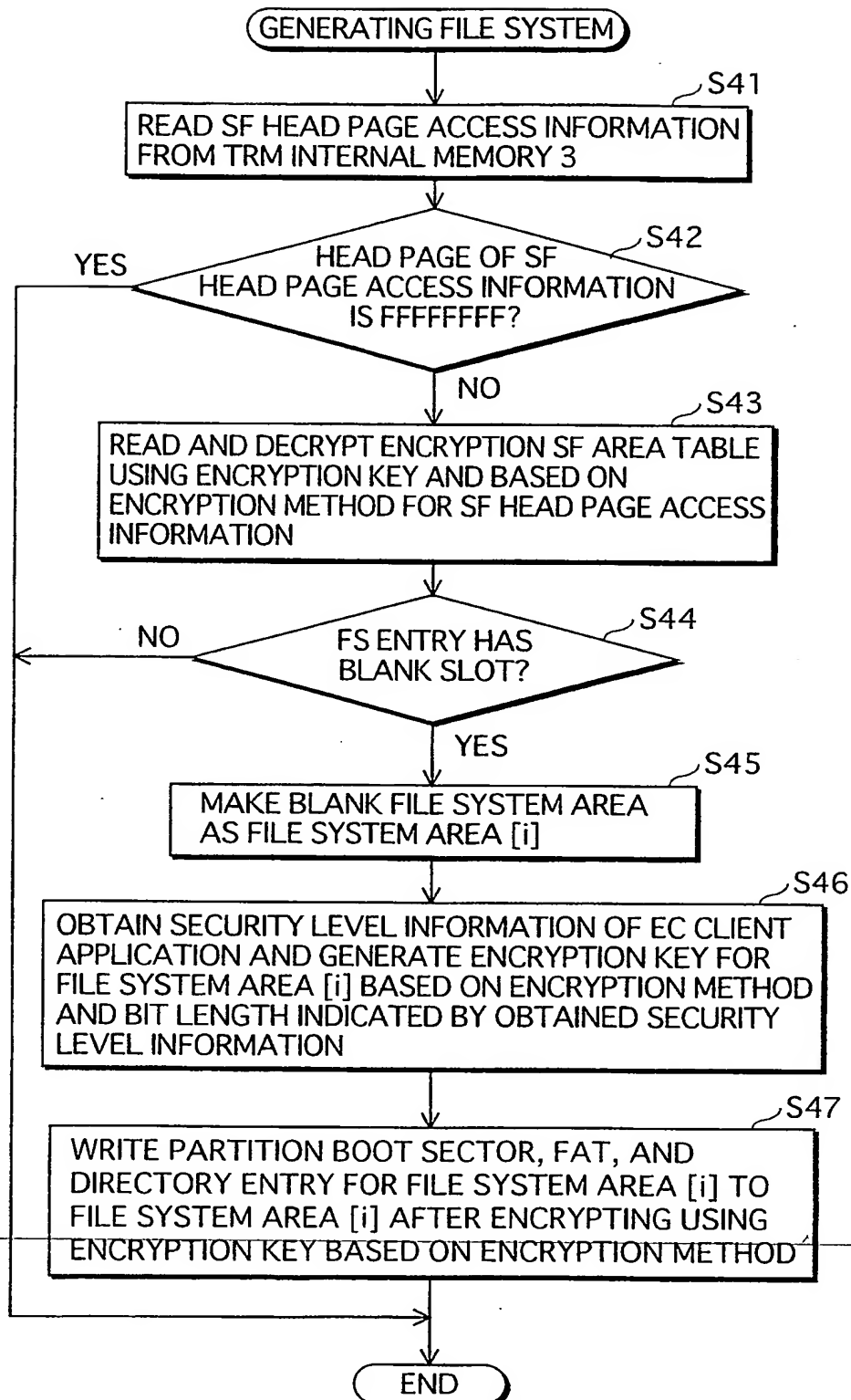


FIG.18

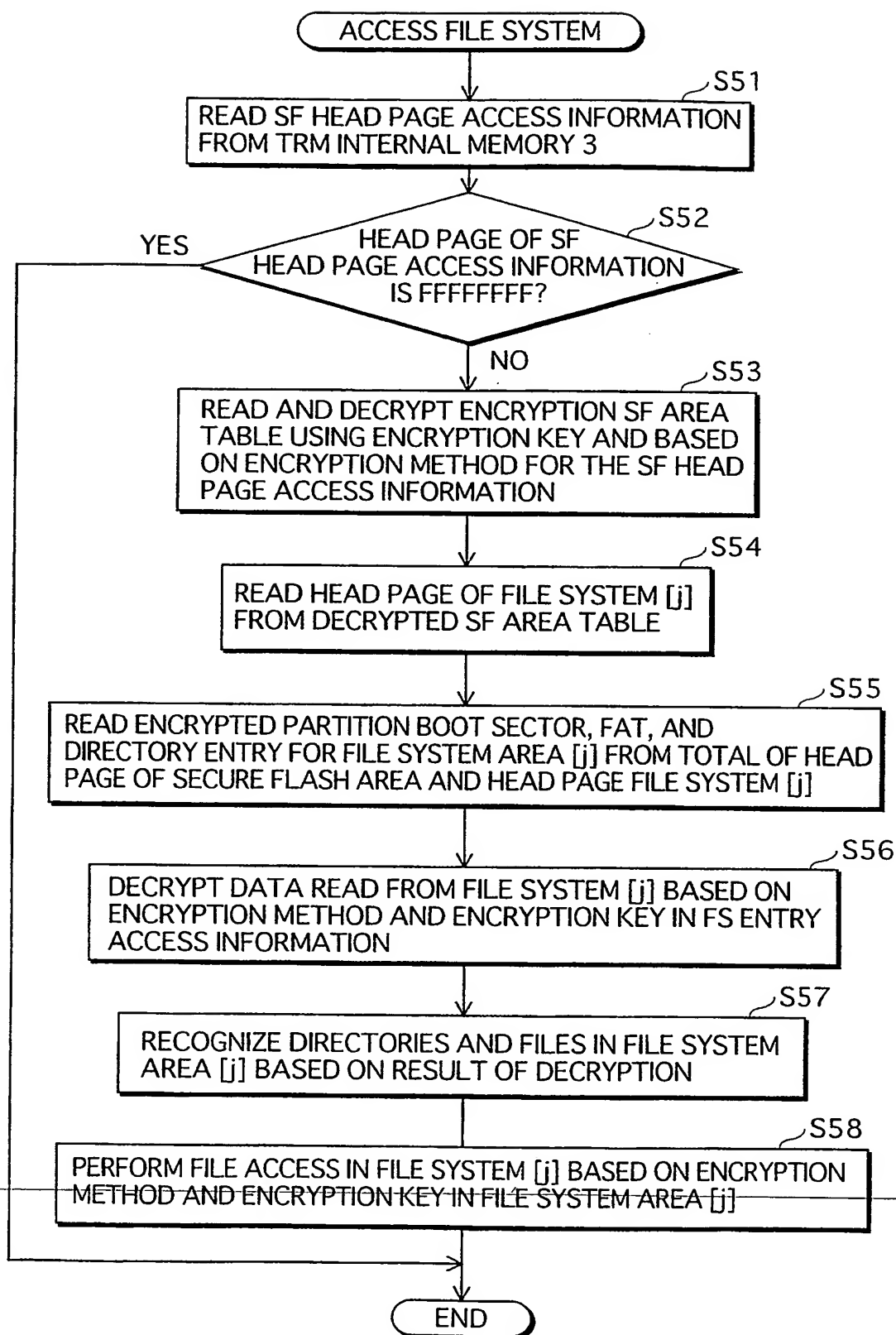


FIG.19

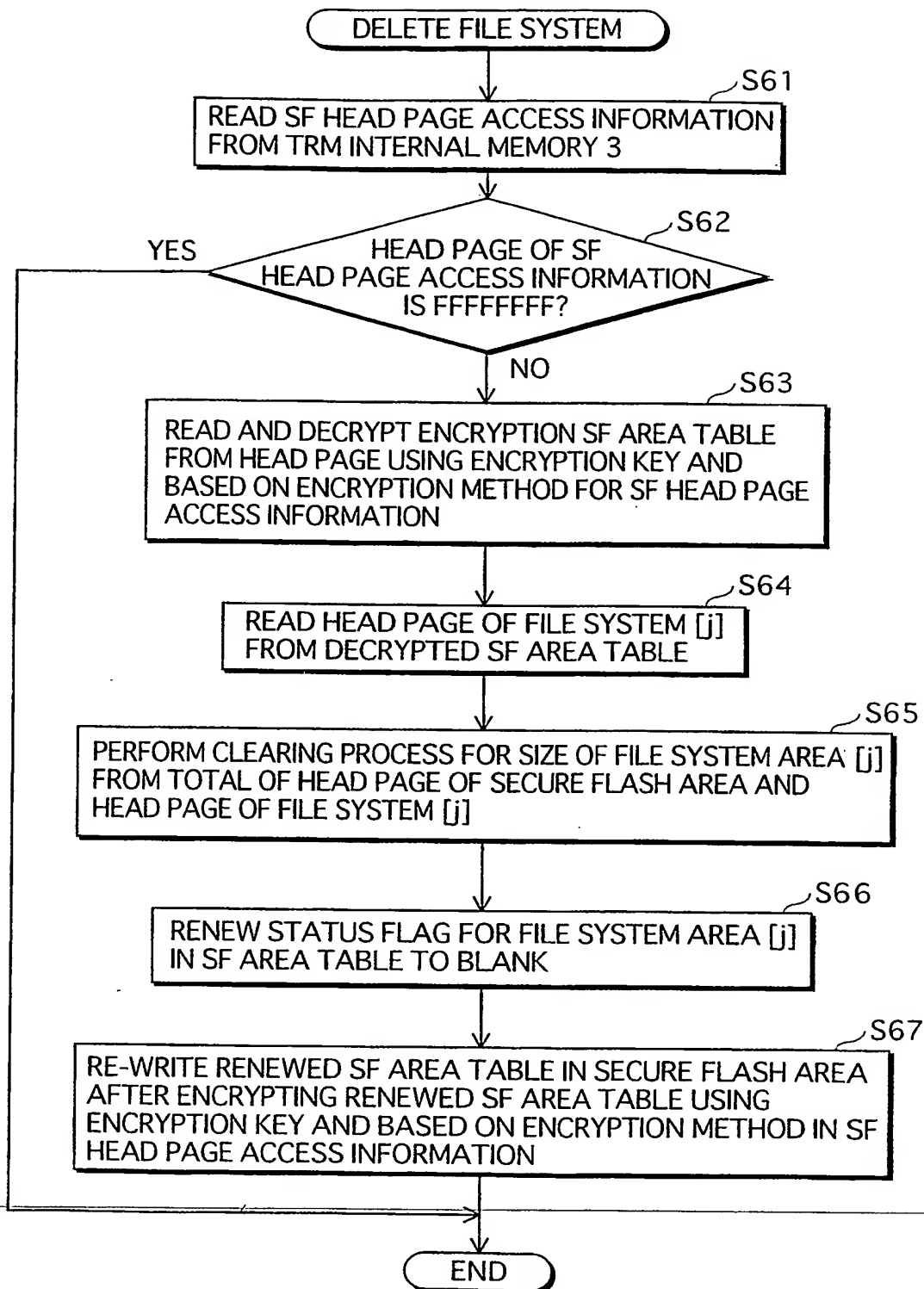


FIG.20

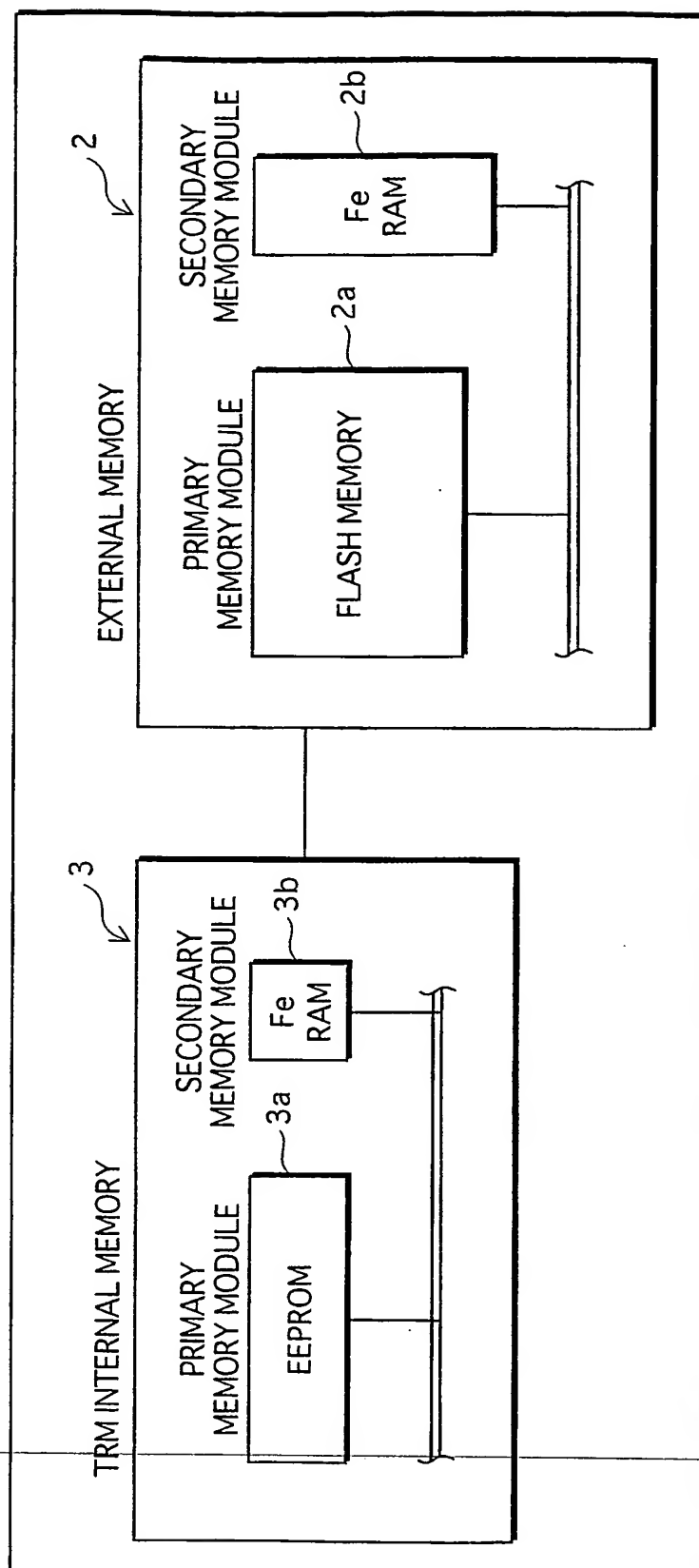


FIG.21

## PERFORMANCE COMPARISON

	COST	LARGE CAPACITY	WRITE UNIT	WRITE TIME	POSSIBLE NUMBER FOR REWRITE TIMES	WRITE STABILITY	READ TIME	READ TYPE	POWER CONSUMPTION
Flash	LOW	○	BLOCK ※1	10000ns	10 <sup>6</sup>	UNSTABLE ※2	50ns	NON-DESTRUCTIVE	○
FeRAM	HIGH	△	1byte ※3	30~ 100ns	10 <sup>12</sup> ~16	STABLE	30~ 100ns	DESTRUCTIVE ※4	◎

FIG.22

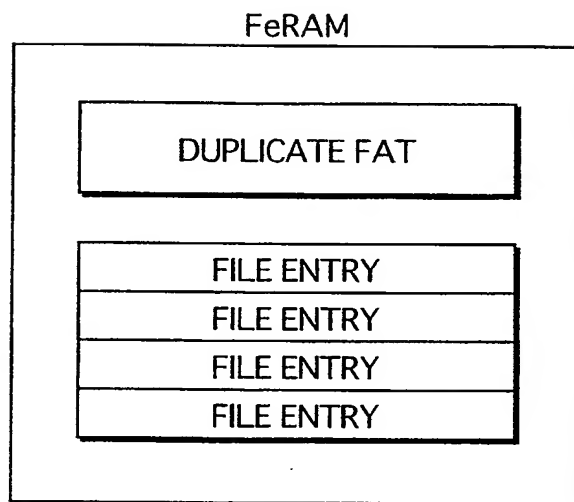
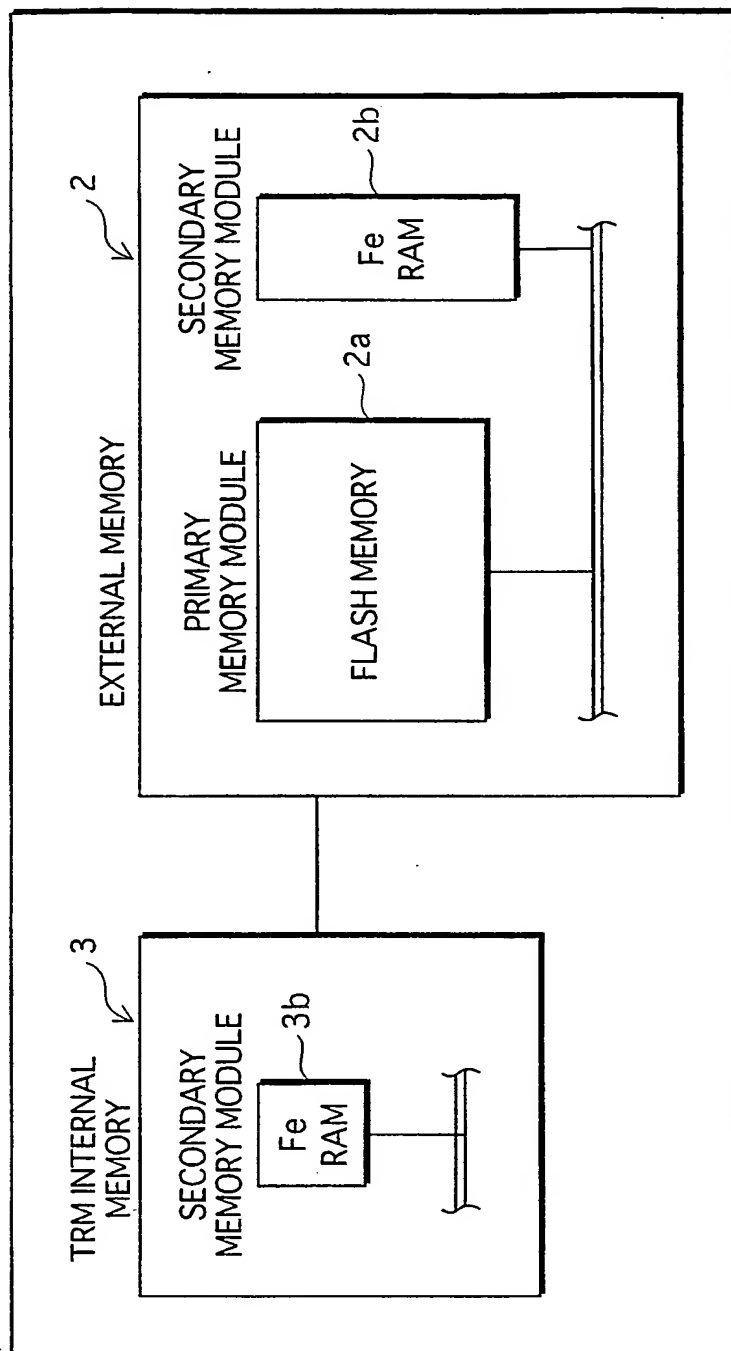


FIG.23



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